

# Bromoacetic acid, 2-naphthyl ester

<b>Inchi:</b>	InChI=1S/C12H9BrO2/c13-8-12(14)15-11-6-5-9-3-1-2-4-10(9)7-11/h1-7H,8H2
<b>InchiKey:</b>	XJWDIZWNDCUOMG-UHFFFAOYSA-N
<b>Formula:</b>	C12H9BrO2
<b>SMILES:</b>	O=C(CBr)Oc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	265.10

## Physical Properties

Property code	Value	Unit	Source
gf	39.99	kJ/mol	Joback Method
hf	-93.35	kJ/mol	Joback Method
hfus	25.58	kJ/mol	Joback Method
hvap	62.48	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	3.140		Crippen Method
mcvol	161.660	ml/mol	McGowan Method
pc	3484.76	kPa	Joback Method
rinpol	1890.00		NIST Webbook
rinpol	1890.00		NIST Webbook
tb	667.05	K	Joback Method
tc	914.19	K	Joback Method
tf	428.60	K	Joback Method
vc	0.608	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.47	J/mol×K	667.05	Joback Method
cpg	382.23	J/mol×K	708.24	Joback Method
cpg	393.04	J/mol×K	749.43	Joback Method
cpg	402.97	J/mol×K	790.62	Joback Method
cpg	412.09	J/mol×K	831.81	Joback Method
cpg	420.49	J/mol×K	873.00	Joback Method
cpg	428.25	J/mol×K	914.19	Joback Method
dvisc	0.0013275	Paxs	428.60	Joback Method

dvisc	0.0009336	Paxs	468.34	Joback Method
dvisc	0.0006937	Paxs	508.08	Joback Method
dvisc	0.0005382	Paxs	547.83	Joback Method
dvisc	0.0004321	Paxs	587.57	Joback Method
dvisc	0.0003567	Paxs	627.31	Joback Method
dvisc	0.0003013	Paxs	667.05	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308052&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308052&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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